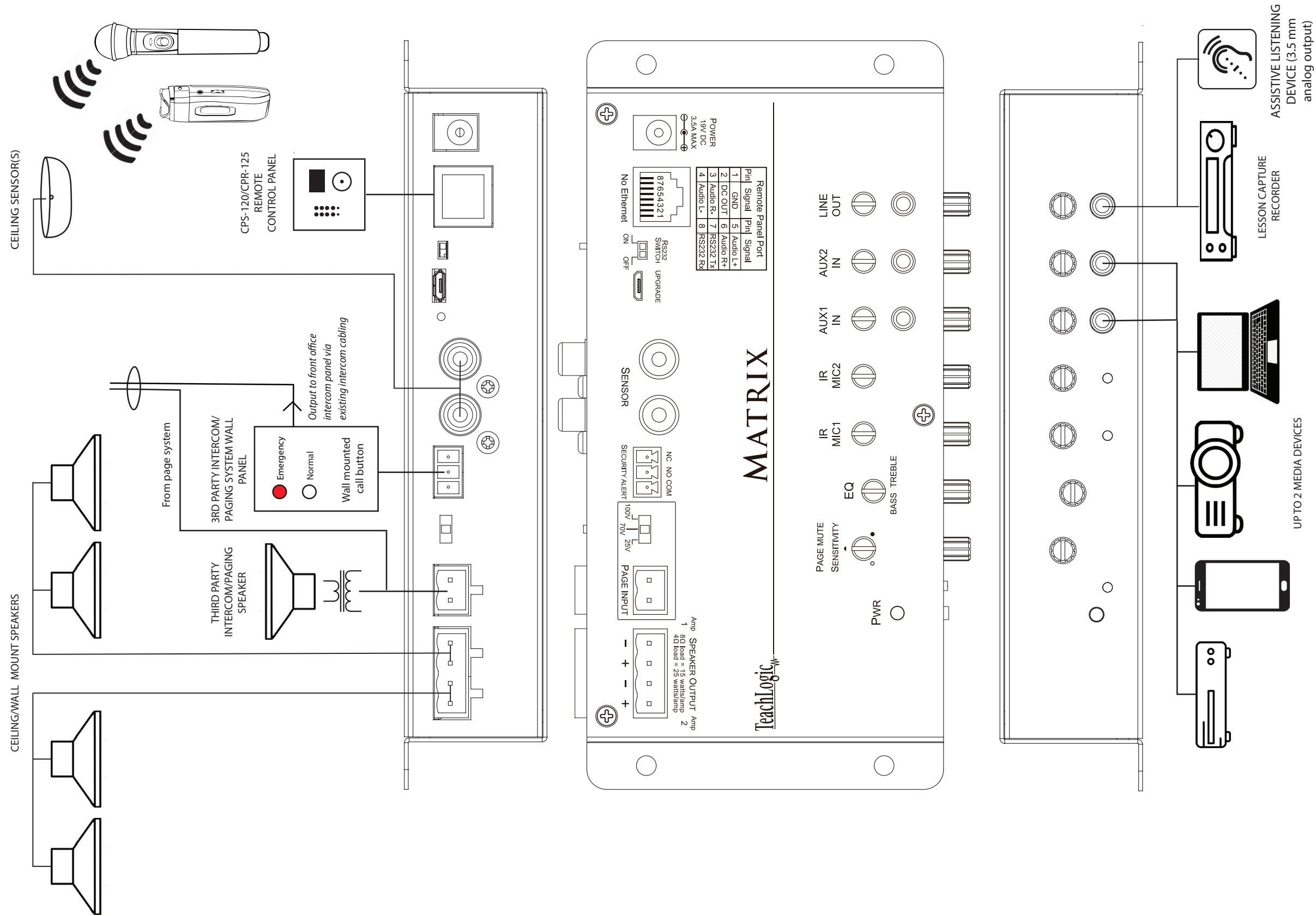# TeachLogic Matrix™ Wiring Diagram

Features:

- 2 infrared wireless microphone receivers with volume control

- 2 stereo, line level, or aux inputs (3.5mm)

- 1 dual mono line level output for Assistive Listening System with gain control (3.5mm)

- 2 Power Amplifiers: Total 50 W RMS (Class D amplifier, 25 W ea channel)

- Security Alert, contact closure, N/O, N/C

- Page override (muting) with Page Pass-through to classroom speakers | Input level 100V, 70V, 25V

- RJ-45 input for TeachLogic remote control wall panel (two control panel models available: CPS-120 & CPR-125)

- RS-232 on/off switch (disables amp input controls when remote control panel is in use)

- Teacher "Priority" instantly attenuates all line inputs

- Bass/Treble control equalizer ± 12 dB

- 2 external microphone sensor inputs, single RCA

- Bluetooth connection (when using CPS-120 or CPR-125 remote control panel)

CEILING SENSOR(S)

CPS-120/CPR-125 REMOTE CONTROL PANEL

CEILING/WALL MOUNT SPEAKERS

From page system

3RD PARTY INTERCOM/ PAGING SYSTEM WALL PANEL

Output to front office intercom panel via existing intercom cabling

Emergency
Normal
Wall mounted call button

THIRD PARTY INTERCOM/PAGING SPEAKER

ASSISTIVE LISTENING DEVICE (3.5 mm analog output)

LESSON CAPTURE RECORDER

UP TO 2 MEDIA DEVICES

MATRIX

TeachLogic™

POWER
19V DC
3.5A MAX

No Ethernet

ON OFF
RS232 SWITCH

UPGRADE

SENSOR

SECURITY ALERT

NC NO COM

100V 70V 25V

PAGE INPUT

PAGE MUTE SENSITIVITY

EQ

BASS TREBLE

PWR

Amp 1 SPEAKER OUTPUT Amp 2
8Ω load = 15 watts/amp
4Ω load = 25 watts/amp

LINE OUT

AUX2 IN

AUX1 IN

IR MIC2

IR MIC1

Remote Panel Port			
Pin	Signal	Pin	Signal
1	GND	5	Audio L+
2	DC OUT	6	Audio R+
3	Audio R-	7	RS232 Tx
4	Audio L-	8	RS232 Rx

8 7 6 5 4 3 2 1